

WHAT IS CLAIMED IS:

1. An eye fundus examination apparatus comprising:

(1) image pickup means for picking up an eye
5 fundus image of an eye to be examined;
(2) display means for displaying the eye
fundus image picked up by said image pickup means;
(3) measurement means for performing
predetermined measurement with respect to a
predetermined position of the eye to be examined; and
10 (4) control means for controlling a
measurement state of said measurement means,
wherein said control means changes a display
state of said display means in accordance with the
15 measurement state of said measurement means.

2. An apparatus according to claim 1, further comprising

(1) laser beam illumination means for
20 performing the predetermined measurement with respect
to a predetermined position of the eye fundus,
wherein the display state of said display means
is switched in accordance with the laser beam
illumination state of said illumination means.

25

3. An apparatus according to claim 1, wherein said control means changes a size of an eye fundus

image displayed on said display means in accordance with the measurement state of said measurement means.

4. An apparatus according to claim 2, wherein
5 said control means zooms an image displayed on said display means at the start of the laser beam illumination, and restores the image to the size before zooming at the end of the laser beam illumination.

10

5. An apparatus according to claim 1, further comprising

(1) instruction signal input means for
inputting an instruction signal for a measurement
15 state to said control means,
wherein the display state of said display means is changed in accordance with an instruction from said instruction signal input means.

20

6. An apparatus according to claim 1, wherein said display means can display predetermined data in addition to an eye fundus image, and changes display states of the eye fundus image and the data in accordance with an output from said control means.

25

7. An apparatus according to claim 1, wherein said eye fundus examination apparatus is an eye

fundus blood flowmeter.

8. An apparatus according to claims 1, 2, 5
and 6, wherein said control means changes the display
5 state in accordance with the predetermined position.

9. An eye fundus examination apparatus
comprising:

(1) illumination means for illuminating an eye
10 fundus of an eye to be examined;

(2) beam illumination means for illuminating
the eye fundus with a beam;

(3) image pickup means for outputting an
electrical image signal by picking up an eye fundus
15 image illuminated by said illumination means and an
illumination image illuminated by said beam
illumination means;

(4) display means for displaying the eye
fundus image and illumination beam image on the basis
20 of the video signal;

(5) beam position detection means for
detecting an illumination beam position; and

(6) display information control means which
can change at least one of a display position and
25 display zooming ratio of an image displayed on said
display means in accordance with a detection result
obtained by said beam position detection means.

10086132-022602

10. An apparatus according to claim 9, wherein when the display position or display zooming ratio is to be changed, the display position or display zooming ratio is changed such that the beam position 5 is displayed in a display area where the image is displayed.

11. An apparatus according to claim 9, wherein when the display position or display zooming ratio is 10 to be changed, the display position or display zooming ratio is changed such that the beam position is displayed in a substantially center of a display area where the image is displayed.

15 12. An apparatus according to claim 9, wherein control is performed to display a low-zooming-ratio display image when the beam position cannot be detected, and to display a high-zooming-ratio display image when the beam position can be detected.

20

13. An apparatus according to claim 11, wherein the display position or display zooming ratio is changed a predetermined time after detection of the beam position.

25

14. An apparatus according to claim 9, wherein both the eye fundus image and predetermined data can

10036139.022602

be displayed on said display means, and a method of displaying the eye fundus image and the predetermined data is changed when the beam position is detected.

5 15. An apparatus according to claim 9, further comprising instruction means for instructing to change at least one of a display position and display zooming ratio of an image displayed on said display means.